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FILE COVERS 1907 - 31 Jan 2007  VOL 146 ISS 6
FILE LAST UPDATED: 30 Jan 2007  (20070130/ED)

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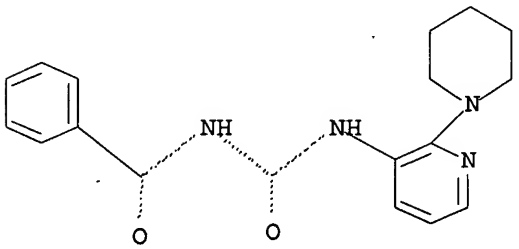


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L4   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2004:756707  CAPLUS
DOCUMENT NUMBER:          141:277497
TITLE:                    Preparation of benzoylureidopyridylpiperidines for the
                          treatment of type 2 diabetes
INVENTOR(S):              Schoenafinger, Karl; Kadereit, Dieter; Defossa,
                          Elisabeth; Herling, Andreas; Klabunde, Thomas
PATENT ASSIGNEE(S):       Aventis Pharma Deutschland G.m.b.H., Germany
SOURCE:                   PCT Int. Appl., 33 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
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| EP 1603895 | A1 | 20051214 | EP 2004-713467 | | 20040221 |
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| BR 2004008148 | A | 20060301 | BR 2004-8148 | | 20040221 |
| CN 1759109 | A | 20060412 | CN 2004-80006240 | | 20040221 |
| JP 2006519795 | T | 20060831 | JP 2006-504448 | | 20040221 |
| US 2004266768 | A1 | 20041230 | US 2004-795863 | | 20040308 |
| NO 2005004418 | A | 20050923 | NO 2005-4418 | | 20050923 |
| PRIORITY APPLN. INFO.: | | | DE 2003-10309929 | A | 20030307 |
| | | | US 2003-487497P | P | 20030715 |
| | | | WO 2004-EP1735 | A | 20040221 |

OTHER SOURCE(S): MARPAT 141:277497


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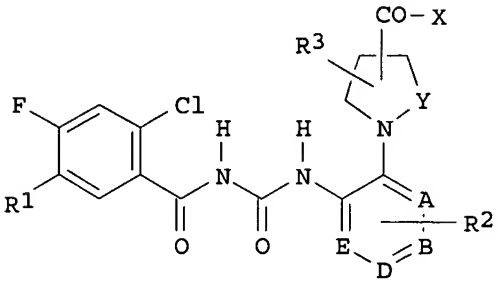

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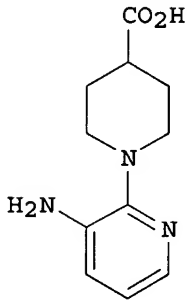

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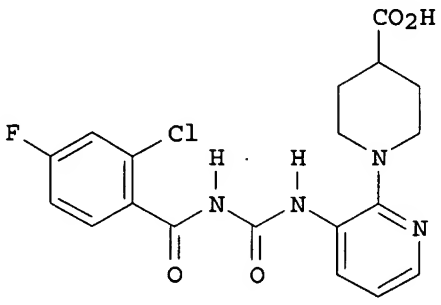


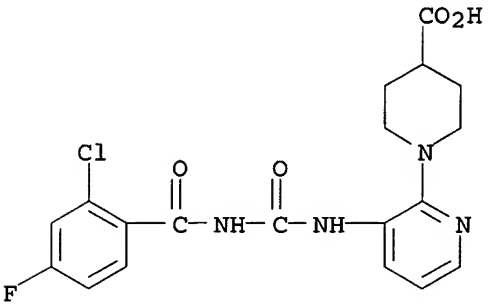
III


AB Title compds. I [R1, R2 = H, halo, alkyl, etc.; R3 = H, alkyl, O-alkyl, etc.; X = OH, O-alkyl, NH2, etc.; A, B, D, E = CH, N, with the proviso that one of A, B, D or E is N; Y = (CH2)m; m = 0-2] and their pharmaceutically acceptable salts were prepared For example, condensation of amine II, e.g., prepared from 2-chloro-3-nitropyridine in 2-steps, and

2-chloro-4-fluorobenzoylisocyanate, afforded ureidopyridylpiperidine III. In activated glycogen phosphorylase inhibition assays, 4-examples of compds. I exhibited IC50 values ranging from 0.01-3.65 μM, the IC50 value of benzoylurea III was 0.04 μM. Compds. I were claimed useful for the treatment of type 2 diabetes.

IT 758720-48-8P 758720-49-9P 758720-50-2P
758720-51-3P 758720-52-4P 758720-53-5P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of benzoylureidopyridylpiperidines for the treatment of type 2 diabetes)

RN 758720-48-8 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[3-[[[(2-chloro-4-fluorobenzoyl)amino]carbonyl]amino]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 758720-49-9 CAPLUS
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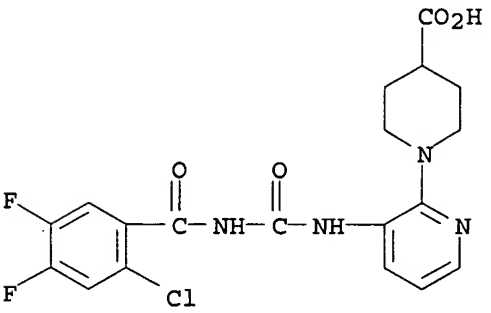

RN 758720-50-2 CAPLUS
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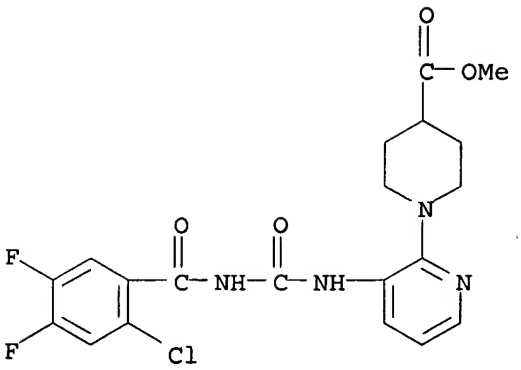

RN 758720-51-3 CAPLUS
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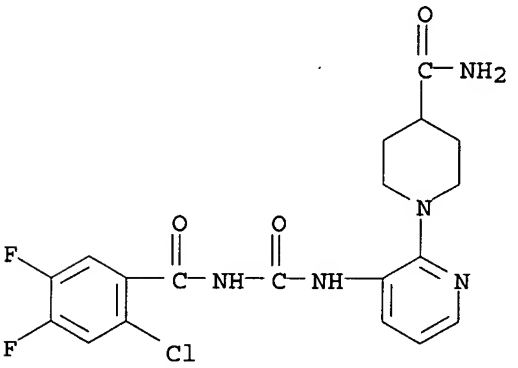

RN 758720-52-4 CAPLUS
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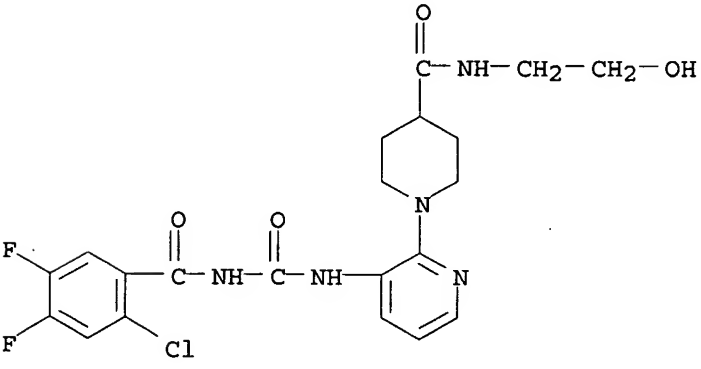
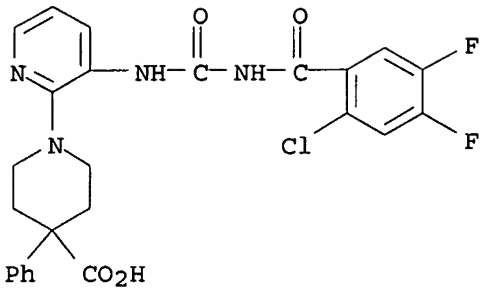


RN 758720-53-5 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[3-[[[(2-chloro-4,5-difluorobenzoyl)amino]carbonyl]amino]-2-pyridinyl]-4-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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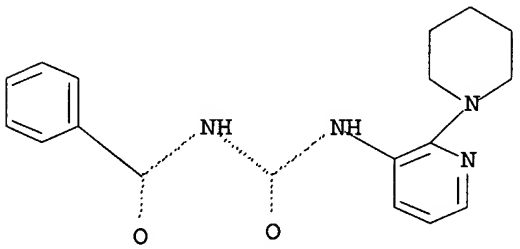

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L5 ANSWER 1 OF 1 USPATFULL on STN
ACCESSION NUMBER: 2004:335674 USPATFULL
TITLE: Substituted benzoylureidopyridylpiperidine-and-pyrrolidinecarboxylic acid derivatives, processes for preparing them and their use
INVENTOR(S): Schoenafinger, Karl, Alzenau, GERMANY, FEDERAL REPUBLIC OF
Kadereit, Dieter, Kelkheim, GERMANY, FEDERAL REPUBLIC OF
Defossa, Elisabeth, Idstein, GERMANY, FEDERAL REPUBLIC OF
Herling, Andreas, Bad Camberg, GERMANY, FEDERAL REPUBLIC OF
Klabunde, Thomas, Frankfurt, GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): Aventis Pharma Deutschland GmbH, Frankfurt am Main, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

NUMBER KIND DATE

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|---|---|---|---|
| PATENT INFORMATION: | US 2004266768 | A1 | 20041230 |
| APPLICATION INFO.: | US 2004-795863 | A1 | 20040308 (10) |

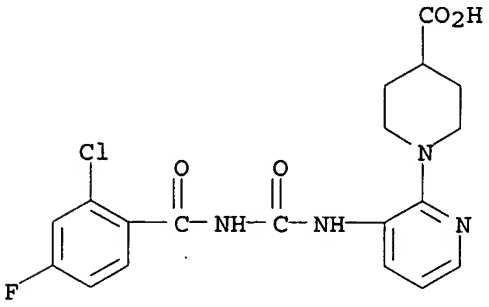
| PRIORITY INFORMATION: | NUMBER | DATE |
|---|---|---|
| | DE 2003-10309929 | 20030307 |
| | US 2003-487497P | 20030715 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ROSS J. OEHLER, AVENTIS PHARMACEUTICALS INC., ROUTE 202-206, MAIL CODE: D303A, BRIDGEWATER, NJ, 08807
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
LINE COUNT: 703
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to compounds of the formula I ##STR1##

where the radicals are as defined, and their physiologically tolerated salts. The compounds are suitable, for example, as medicaments for preventing and treating type 2 diabetes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 758720-48-8P 758720-49-9P 758720-50-2P
758720-51-3P 758720-52-4P 758720-53-5P
(preparation of benzoylureidopyridylpiperidines for the treatment of type 2 diabetes)
RN 758720-48-8 USPATFULL
CN 4-Piperidinecarboxylic acid, 1-[3-[[[(2-chloro-4-fluorobenzoyl)amino]carbonyl]amino]-2-pyridinyl]- (9CI) (CA INDEX NAME)




RN 758720-49-9 USPATFULL
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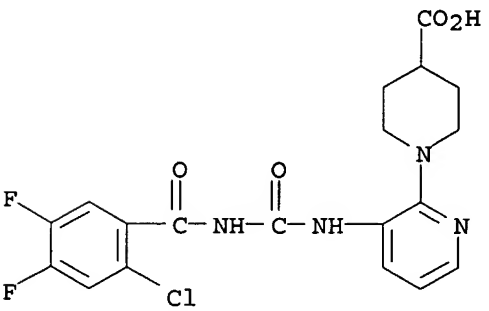
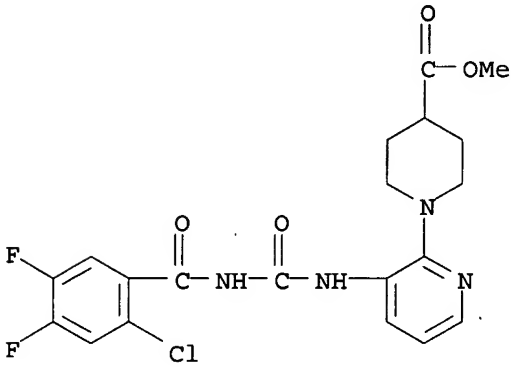


RN 758720-50-2 USPATFULL
CN 4-Piperidinecarboxylic acid, 1-[3-[[[(2-chloro-4,5-difluorobenzoyl)amino]carbonyl]amino]-2-pyridinyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 758720-51-3 USPATFULL
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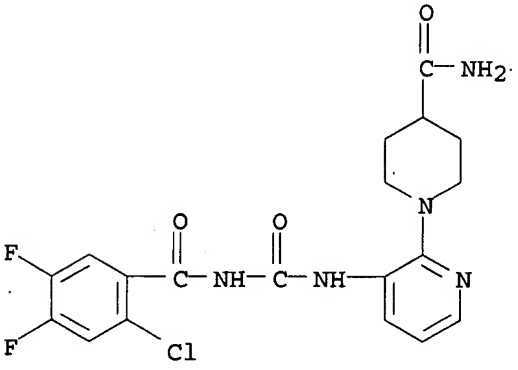
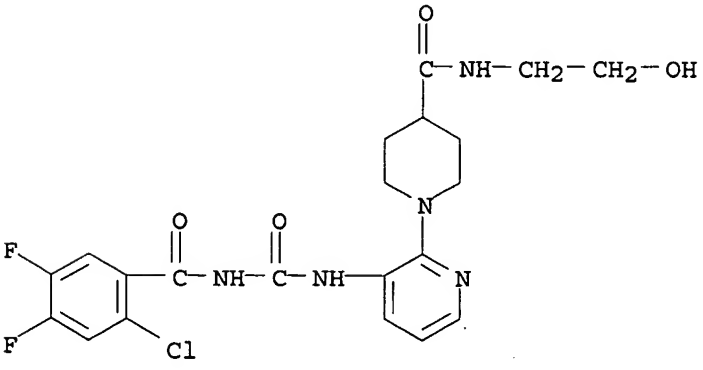
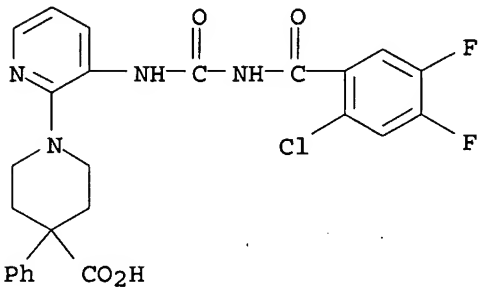


RN 758720-52-4 USPATFULL
CN 4-Piperidinecarboxamide, 1-[3-[[[(2-chloro-4,5-difluorobenzoyl)amino]carbonyl]amino]-2-pyridinyl]-N-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



RN 758720-53-5 USPATFULL
CN 4-Piperidinecarboxylic acid, 1-[3-[[[(2-chloro-4,5-difluorobenzoyl)amino]carbonyl]amino]-2-pyridinyl]-4-phenyl- (9CI) (CA INDEX NAME)



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